

Traverse City Fire Department 2017 Annual Report





Traverse City Fire Department 2017 Annual Report

Welcome:

This is the second formal Annual Report produced by the Traverse City Fire Department. Looking back on 2017, we can review the information and statistics and other information points to help us provide for the current and plan for the future.

In 2017 the Traverse City Fire Department responded to 3,118 emergency "911" calls for service. This is an increase of 57 calls over the amount of 3,061 recorded for 2016. Almost all of these were within the City limits. A few times we traveled outside of the City to aid our neighboring emergency service agencies.

There are tables and graphs within this report that illustrate the breakdown of calls for service made.

Of these responses, a total of 2,401 calls were recorded under Rescue and Emergency Medical. This is an increase of 141 over the amount of 2,260 recorded for 2016. The volume of calls in this category continues to follow the national trend within the Fire Service across the country. It has been a national trend across our country for several years that fire service-based Emergency Medical Service calls far outnumber other emergency calls including fires.

There were 34 fire emergencies in the City in 2017. This is a decrease of 20 fire emergencies compared to the amount of 54 recorded for 2016. According to our records, total property value that involved a fire equaled approximately \$3.5 million, with a reported loss of approximately \$835,000 with approximately \$2.7 million in property value saved. Unfortunately, there were 2 recorded fatalities associated with fires occurring in 2 separate residential buildings within the City in 2017.



As of this writing, the State of Michigan has recorded the most fire-related fatalities of any other State since January 01, 2018. The Traverse City Fire Department, along with other Fire Service agencies in the Northwest Lower Michigan are working with the State Fire Marshal's Office in an effort to increase fire safety education and prevention in our area. Particularly with our Senior population who, according to recent case studies, are the most affected part of our population regarding fires related injuries and fatalities.

Information continues to be provided to us through the many fire service science-based institutions that inform us though fire occurrences are fewer; they are hotter and much quicker to develop than ever due to the presence of synthetic materials in and about the structure. Learning this new information and with it new strategies and tactics for fire suppression is a constant training effort.

Emergency Management and planning for contingencies regarding the provision of emergency services during our many festivals, run/walks, and other events attended by the public is performed throughout the year. This is carried out by the Traverse City Fire Department, the Traverse City Police Department, the Grand Traverse County Office of Emergency Management, and other agencies whose responsibility it is to respond.

A new facet of event planning that commenced in 2017 is the requirement for the event sponsor to have an approved Barricade Plan in place to protect concentrations of people gathering at the event from motor vehicles striking crowds. This requirement is part of the event permit process administered by the City Clerk's Office. This will provide a safer environment for our citizens and visitors during our many festivals and other organized events.

Through support from the City Manager and City Commission, we were able to purchase a new Rescue 01 Advanced Life Support (ALS) Transport unit. Rescue 01 is assigned to Station 01 on West Front Street. It is an F-450 diesel powered 4-wheel drive rescue ambulance.



Rescue 01 is staffed by 2 Firefighter Paramedics and responds primarily to all medical calls on the west side of the City. At times, it responds to the east side of the City to assist Engine 02 which is an ALS-non-transport unit. In 2017, Recue 01 transported 52 patients to the Munson Hospital Emergency Department.

We provide many "behind the scene" services through the year. Medical standby at Thirlby Field during the fall football season. Medical/Rescue standby during the many festivals and events in the City, especially certain high-use events on the Boardman River. Blood pressure checks at the Senior Center, CPR classes for other City Departments and medical training for the National Ski Patrol at Hickory Hills are just a few of these types of services. Another is the Child Care Safety Seat program. Last year our 3 certified car seat technicians installed or checked a total of 23 child care safety seats. Many of these are short-notice event in which the family is on the way to pick up mother and the newborn at Munson Hospital. With 3 CSSS Techs on the Department, we can usually accommodate.

In looking ahead to 2018, the fire department will continue to be challenged by new developments and information being learned in the area of emergency services. Adjusting to the needs of the Community for protection and service is a constant project. Changes in housing and other development projects, changes in construction practices and materials affect how we apply personnel, apparatus and equipment during emergencies in a safe and efficient manner.

We plan and train to address changes in rescue/medical response needs. The area of drug abuse/overdoses affects how we provide emergency medical services. An area of concern and focus for planning and training is in the area of response to Active Shooter Incidents (ASI) and Mass Casually Incidents (MCI). Both require a significant amount of additional training, equipment, development of Standard Operating Guidelines along with training exercises involving neighboring emergency response agencies and other entities such as our educational institutions, private industry and others.



During 2017, the Traverse City Fire Department saw the departure of 4 personnel, and the arrival of 2 new personnel. (NOTE: 2 additional new fire personnel were added to the roster in early 2018). 1 person left to return their former Fire Department down-state. The other 3 personnel left on a scheduled retirement after serving with City Fire for 25 years.

As reported in the 2016 Annual Report, the Fire Department was involved in a grant writing process to acquire a Homeland Security grant administered through the United State Coast Guard in an effort to replace our current Marine 01 rescue vessel. Marine 01 was a former (used) US Coast Guard water craft when we received it many years ago. It is nearing the end of its service life. As we were informed throughout the grant process, we were on track to be successful until the 2 hurricanes struck the southern part of our country. Most of the Federal Grant funding went to the agencies that supported the rescue and recovery area in the Southern States. We are going to re-apply during the next grant cycle. With the heavy use of West Bay by water recreation enthusiasts, we see the need to increase our capabilities for water rescue response and search operations during not only fair weather days, but also during times of storm and rough seas.

Through a group effort with the City Department of Public Services and City Garage, we were successful in securing funding to replace Marine 02 which provides rescue services to East Bay, Boardman Lake and the Boardman River. The replacement process began in 2017 and we are expecting arrival of a 15' Sea Wolf Survivor Inflatable Rescue vessel yet this month. The vessel is designed for 4-season use with a removable outboard motor and a hard plastic bottom that enables us to use it for ice rescue response.

Through the Capital Improvement Plan process, we are budgeting for infrastructure improvements to Station 01 and Station 02 to increase the level of safety for City Fire personnel and protection for the equipment housed in the Stations.



Due to a change in the process required to file medical run reports with the State of Michigan, we are currently researching different medical report and fire service software packages to remain in compliance with Michigan Department of Health and Human Services requirements as part of the 2018-2019 Budget process.

Content for this report was provided by many City Fire personnel as an assist to the Chief's Office. I am very appreciative of their help and support.

Thank you for taking the time to review this Annual Report.

Best Regards,

Jim Tuller,

Fire Chief

Traverse City Fire Department Mission Statement

The Traverse City Fire Department is an all-hazards emergency response agency that will provide protection and safety for the public.

Goals to Meet Our Mission

Ensure the taxpayers of Traverse City receive the greatest benefit for the dollars expended in providing emergency services.

Empower members to make appropriate decisions and to perform their duties in a professional, productive, and efficient manner.

Continuously develop plans and train our members in providing effective intervention in all emergency incidences, while keeping life safety the highest priority and property loss to a minimum.

Establish and maintain a feeling of partnership between the Fire Department and the business community in our continued effort to correct life safety and fire hazards identified through the Fire Inspection process.

Create and maintain a plan for the mobilization of resources needed for the safety and expeditious mitigation of all incidents.

Continue to provide Advanced Life Support/Paramedic services to the Traverse City community.

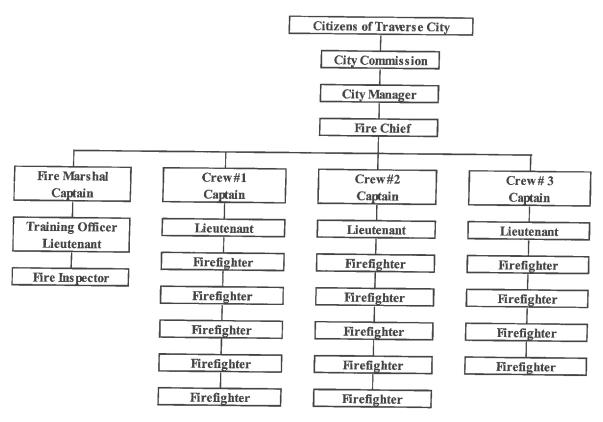
Establish and provide Public Education Programs affording the citizens of Traverse City the tools and knowledge needed in planning for the safety of their family and property against all types of emergencies, thus allowing mutual trust though community partnerships.

Promote partnerships with area agencies to increase all-hazards response capabilities.

Continue training, education and interaction with state and federal agencies to insure effective response coordination and intra-operability.



Organizational Chart



The organizational chart is based upon the Incident Command System (ICS) which is part of the Federal National Incident Management System (NIMS). All emergency service personnel across the country are required to be trained in NIMS and use the ICS during all emergencies.

The Fire Department is a para-military organization in that there is an element of authority and responsibility along with communication from the Fire Officers who are responsible for the Firefighters on their shifts.

ICS provides for Command and Control during emergencies to help ensure pathways for clear communication. This in turn provides for the safety of the citizens, fire personnel, and other responders on the scene.



Traverse City Fire Department

2017 Personnel Roster

		MEDICAL	YEARS OF SERVICE	
NAME	POSITION	LICENSE	FOR TRAVERSE CITY	
1 Jim Tuller	Fire Chief	Paramedic	27 years, 8 months	
2 Mike Sheets	Capt. Fire Marshal	Paramedic	21 years	
3 Chad Rueckert	Captain	EMT Intermediate	19 years, 5 months	
4 Larry Mueller	Captain	Paramedic	18 years, 4 months	
5 Chris Jackson	Lieutenant	Paramedic	16 years, 2 months	
6 Eric Jackson	Lieutenant	Paramedic	15 years, 10 months	
7 Steve Ball	Captain	Paramedic	15 years, 6 months	
8 Nate McKerchie	Firefighter	Paramedic	14 years, 1 month	
9 Chris Peron	Lieutenant	Paramedic	13 years, 5 months	
10 James Smielewski	Lt.Training Officer	Paramedic	12 years, 11 months	
11 Jerry Wojtanowski	Firefighter - A.O.	Paramedic	11 years, 11 months	
12 Keith Fritz	FF - Fire Inspector	EMT-Basic	11 years, 11 months	
13 Kenny Davis	Firefighter - A.O.	Paramedic	11 years, 11 months	
14 Eric Moravcik	Firefighter	Paramedic	11 years, 9 months	
15 Tom Thompson	Firefighter - A.O.	Paramedic	10 years, 11 months	
16 TJ Taylor	Firefighter	Paramedic	9 years, 8 months	
17 Ken Funk	Firefighter	Paramedic	4 years, 1 month	
18 Jacob Steichen	Firefighter	Paramedic	3 years, 8 months	
19 Chad Chinlund	Firefighter	Paramedic	3 years, 6 months	
20 Vincent Castaneda	Firefighter	Paramedic	1 year, 1 month	
21 Ty Bajtka	Firefighter	Paramedic	4 months	
22 Tyler Vandemark	Firefighter	Paramedic	4 months	
23 Vacant	Intending to fill 2018			
24 Vacant	Intending to fill 2018			
25 Vacant				

A.O. denotes Acting Officer. These Firefighters may hold a temporary Lt. position upon the absence of the Lt. on their crew.

Many personnel that are hired onto the Fire Department have 5-10 years previous fire and /or medical service experience before coming to Traverse City. Almost all personnel will have a career spanning 25 years after which they move to a scheduled retirement.



Station 01 – 500 West Front Street

Station 01 was constructed at the location on Front Street in 1974. The previous station located at 118 South Cass (currently Bistro Fou Fou) was built to house horses, steam powered fire apparatus and firefighters.

As the times changed, and the horse teams were replaced with new larger equipment, a new station was needed.

Engine 01, Rescue 1, Ladder 01, Hazmat 01, and Rescue 06 are housed at Station 01. The Administration offices for the Fire Department are at Station 01.

Station 01 daily staffing:

- o Fire Chief
- o 24-hour Suppression Crew: 1 Captain, 2 Fire Fighter/Paramedics
- Admin/Support: 1 Captain Fire Marshal, 1 Lieutenant Training Officer, 1 – Fire Inspector.





Station 02 – 1313 East 8th Street

Station 02 was constructed at the location on the corner of East 8th and Fair Streets at 1313 East Front Street in 1968 in response to increased development on the east side of the City, particularly the industry occupancies in the Aero Park Drive area.

Engine 02, Rescue 02 and Engine 03 are housed at Sta. 02.

Station 02 daily staffing:

o 24-hour Suppression Crew: 1 Lieutenant, 1 to 2 Fire Fighter/Paramedics





ARFF Station (03) – 3426 Wright Drive Cherry Capital Airport

Aircraft Rescue Fire Fighting (ARFF) Station at 3245 Wright Drive at Cherry Capital Airport covers the airport property. This includes the airport proper, along with the clear zone approach/departure areas.

Through a contract between the City of Traverse City and the Northwestern Regional Airport Commission (NRAC) the fire department provides 1 firefighter to staff a specialized ARFF rescue truck on a 24/7 basis.

The ARFF building and all property/equipment is owned by the Northwestern Regional Airport Commission.

ARFF Station daily staffing:

- o 24-hour Crash/Fire Crew: 1 Fire Fighter/Paramedic
- NOTE: All costs for the provision of a TCFD member to staff the ARFF Station are paid for by the NRAC on a monthly basis.





Engine 01

Make: Kovatch Mobile Equipment (KME)

Model: Custom Year: 2003

Staffing: 1 Captain and 2 Firefighter Paramedics

Assignment: Station 01

Notes: Carries 500 gallons of water and can pump 1,500 gallons per minute.

Engine 01 is also a Basic Life Support non-transport unit

Scheduled replacement: 2024. This may occur sooner based upon increased

maintenance and repair costs.





Engine 02

Make: Pierce Manufacturing Inc.

Model: Velocity Year: 2016

Staffing: 1 Lieutenant and 1 or 2 Firefighter Paramedics.

Assignment: Station 02

Notes: Carries 750 gallons of water and can pump 1,500 gallons per minute.

Engine 02 is an Advanced Life Support non-transport unit.

Scheduled replacement: 2037





Ladder 01

Make: Kovatch Mobile Equipment (KME)

Model: Aerial Cat

Year: 2004

Staffing: Ladder 01 responds with 2-3 personnel to working structure fires or

with the first off-duty call in person.

Assignment: Station 01

Notes: Carries 300 gallons of water and can pump 2,000 gallons per minute. The aerial ladder is designed for rescue of persons from an elevated position. The extended length of the ladder is 100'. Ladder 01 is also a Basic Life.

Support non-transport unit. Scheduled replacement: 2029





Rescue 01

Make: Ford F-450 PL Custom

Model: 4wd - Light Rescue/ Medical Transport unit

Year: 2017

Staffing: Responds with 2 Firefighter Paramedics.

Assignment: Station 01

Notes: Rescue 01 It is an Advanced Life Support Transport Unit. It has the ability to transports patients to Munson Medical Center when North Flight is

unavailable. Transport services are billed.

Scheduled replacement: 2027





Hazmat 01

Make: Spartan – Spencer Manufacturing Model: Hazardous Materials Response unit

Year: 2006

Staffing: Responds with on-duty personnel in and close to the city. Responds

with a mix of on duty and off duty personnel to GT Area.

Assignment: Station 01

Notes: Provided to the City in 2006 through a Homeland Security Grant program. Supports Hazardous Materials response in the GT Area through a

subscription program. Supports State Region 07 if requested.

Scheduled replacement: 2035





ARFF RESCUE 04



ARFF RESCUE 03





Engine 03

Make: Pierce Manufacturing Inc.

Model: Dash Year: 1994

Staffing: When active, 1 Captain and 2 Firefighter Paramedics.

Assignment: Station 02 (Reserve)

Notes: Carries 750 gallons of water and can pump 1,500 gallons per minute. Engine 03 is a reserve unit that is brought up to respond to calls when other

Engines are out of service for maintenance.

Scheduled replacement: Replaced in 2016 with the new Pierce Engine 02 assigned to Station 02. Will remain in reserve status until cost prohibitive.





The City of Traverse City encompasses 8.33 square miles of land area, with a jurisdiction of 1 mile north into West Bay. Information available in 2014 showed a resident population of 14,674 and a daytime population of over 33,000. During the summer weekends, the population increases significantly and during our many festivals, it increases dramatically.

There are 7,358 housing units in the City with more being constructed at a steady pace. 31 % (2,280) housing units are in multi-unit structures. There are also a reported 3,469 business/commercial establishments within the City.

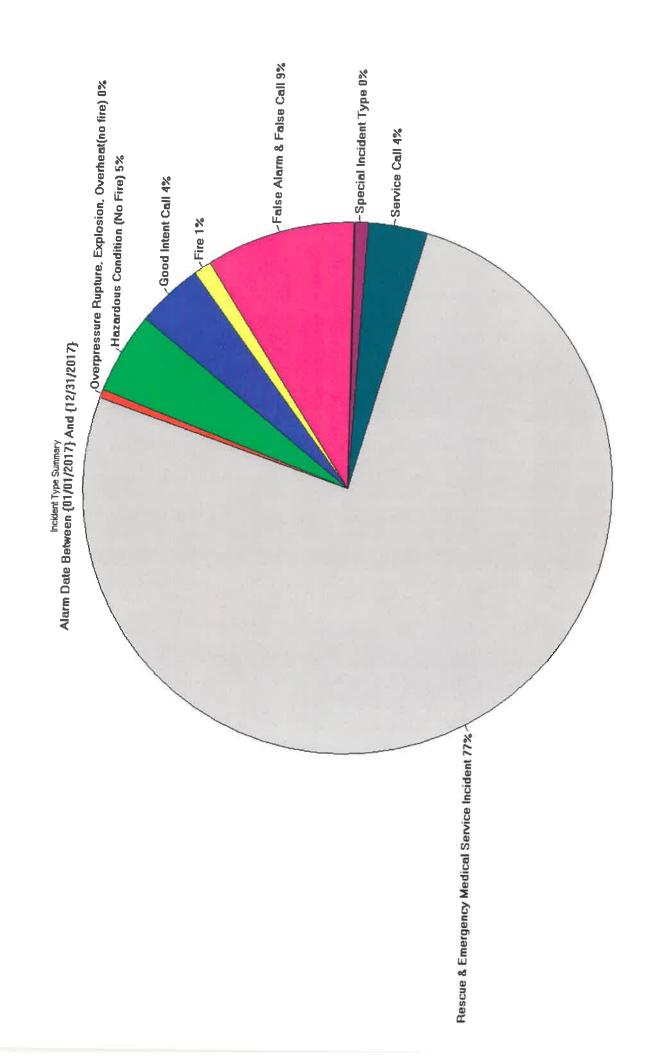
In calendar year 2017, the Fire Department answered a total of 3,118 911 calls for service. All calls for service require reporting to the State and Federal Government through the utilization of the National Fire Incident Reporting System (NFIRS).

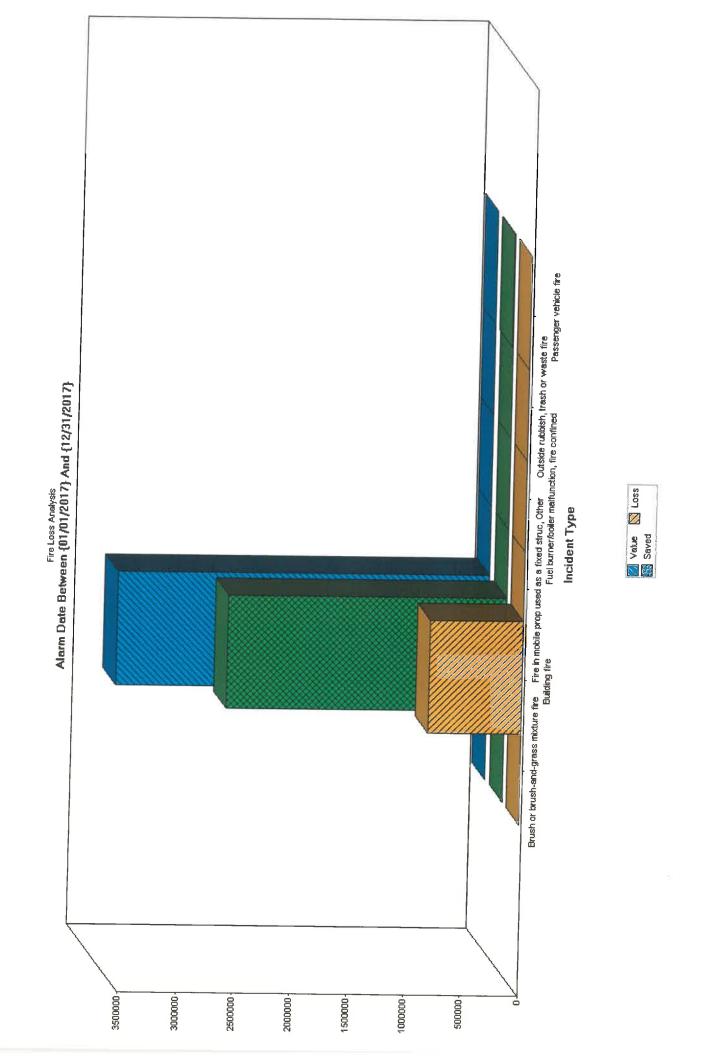


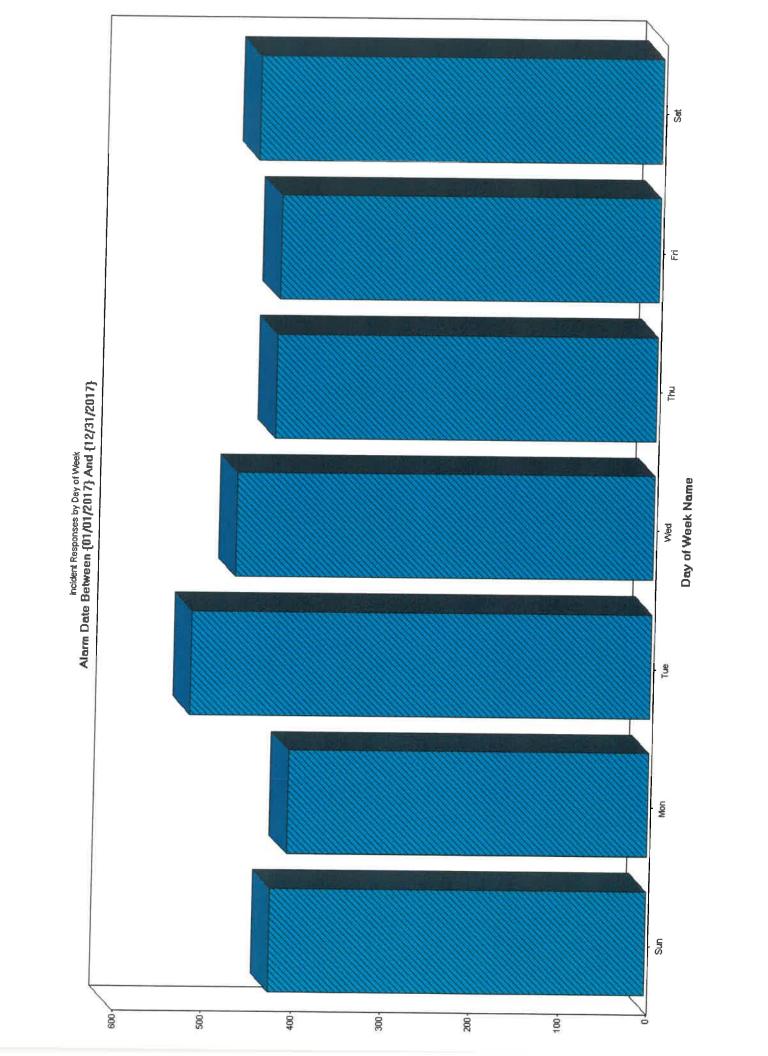


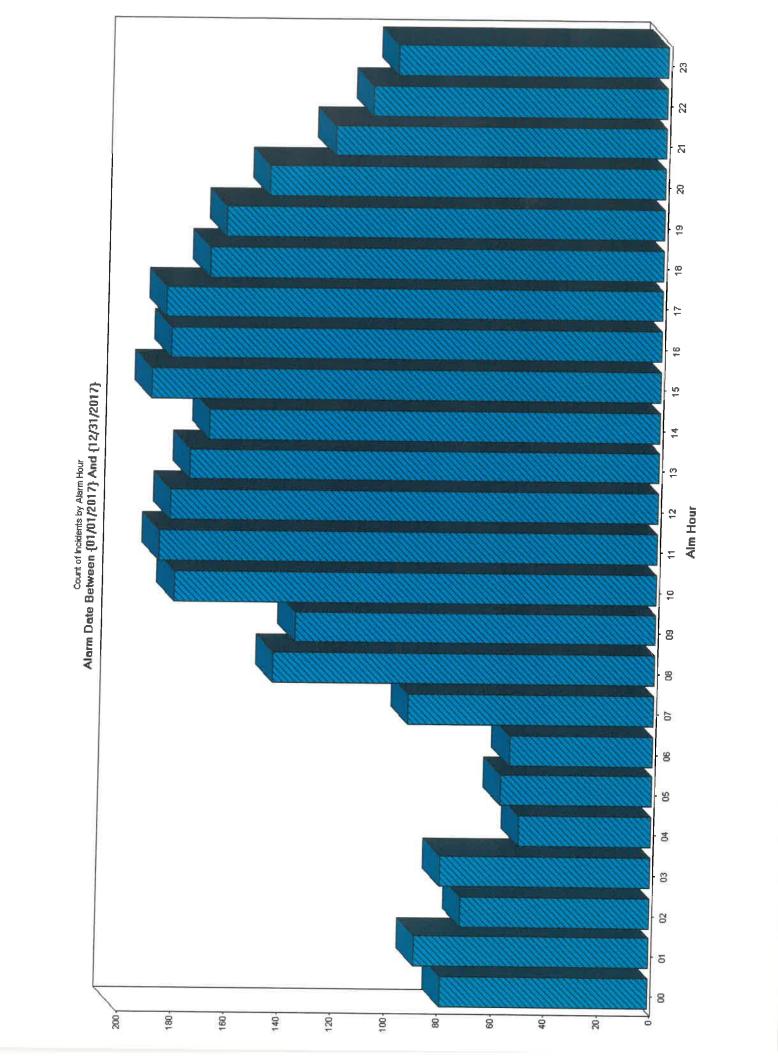
NFIRS uses 9 different sections to record all of the different types of incidents today's fire service responds to in providing protection to the community. Described below:

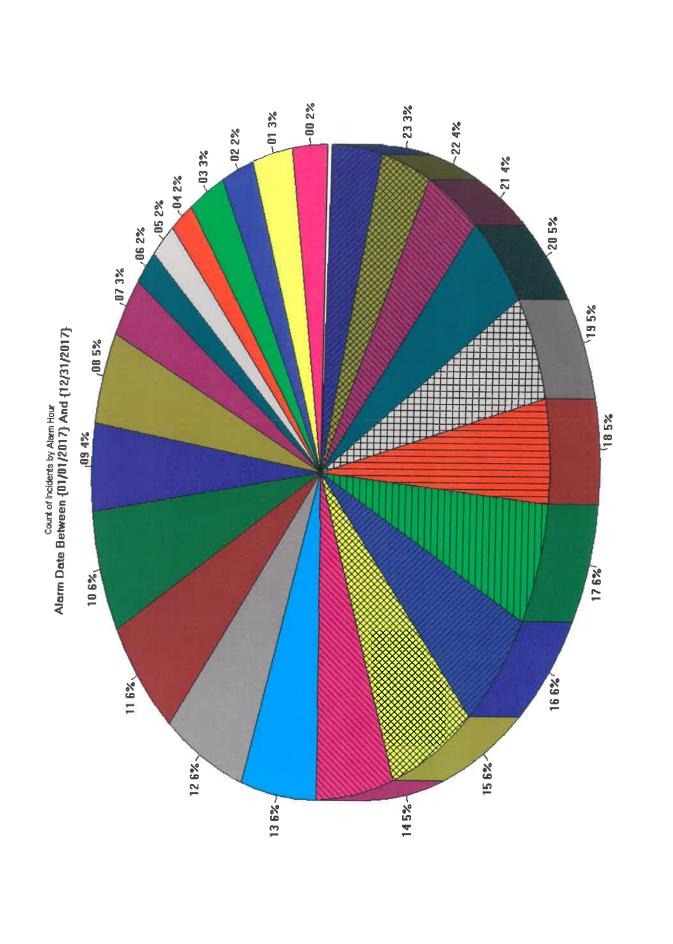
- 1 Fire: 16 sub-sections. Any type of fires inside or outside structures or mobile property. Cooking fires, chimney fires, passenger vehicle fires, forest, woods, brush and rubbish fires.
- <u>2 Overpressure, Rupture, Explosion, Overheat (no fire):</u> 2 sub-sections. A pressure vessel explosion or a water heater failure would be recorded under this section.
- <u>3 Rescue & Emergency Medical Service Incident:</u> 13 sub-sections. Includes Priority 01 (Critical) medical, Priority 02 (Life-threatening/serious) medical and Priority 03 (Minor/all other) medical. Also includes all Rescue class: motor vehicle crash, pedestrian vs auto, water rescue, ice rescue and technical rescue calls.
- 4 Hazardous Condition (no fire): 21 sub-sections. Flammable liquid spills, electric service wires down, arcing-shorted electrical equipment, biological hazard, aircraft standby are all parts of this section.
- <u>5 Service Call:</u> 13 sub-sections. Water leak, smoke/odor removal public assistance. Provision of assistance/aid where there is little to no sense of emergency.
- <u>6 Good Intent Call:</u> 8 sub-sections. Dispatched and cancelled en route, steam mistaken for smoke, smoke scare/odor of smoke.
- 7 False Alarm & False Call: 17 sub-sections. Malicious false alarm, accidental false alarm, alarm system malfunction, alarm system activation with no fire, etc.
- <u>8 Severe Weather and Natural Disaster:</u> 5 sub-sections. Earthquakes, floods, tornadoes and other major impact weather related emergency causes.
- 9 Special Incident Type: 1 sub-section. Complaints and/or code violations.
- Page 21: Incident Type Summary Pie graph
- Page 22: Property Loss Value Analysis Bar graph
- Page 23: Incident Responses by Day of Week Bar graph
- Page 24: Incident Responses by Hour of Day Bar graph
- Page 25: Incident Responses by Hour of Day Pie graph













2017 Incidents – Responses NFIRS Section

NFIRS INCIDENT SECTION	2016 TOTAL	2017 TOTAL
FIRE	54	34
OVERPRESSURE, RUPTURE, EXPLOSION	2	4
RESCUE & EMERGENCY MEDICAL	2260	2401
HAZARDOUS CONDITION (NO FIRE)	162	155
SERVICE CALL	172	112
GOOD INTENT CALL	173	125
FALSE ALARM & FALSE CALL	230	283
SEVERE WEATHER	0	0
SPECIAL INCIDENT	8	4
TOTALS	3061	3121

The East West dividing line for emergency responses is the (roughly) north-south line of Woodmere Avenue and Railroad Avenue.

The primary response district for Station 01 is west of the Woodmere/Railroad line.

The primary response district for Station 02 is east of the Woodmere/Railroad line with the exception of the properties located on the east shore of Boardman Lake.

The primary response area of the ARFF Station 03 – Airport Station is the secured area (inside the perimeter fence) of Cherry Capital Airport.

Working structure fires, some fire alarms and multiple vehicle accidents are some of the times when City Fire units will travel to the area of the other Station to assist. Many aircraft alerts received at Cherry Capital Airport will involve both Stations responding to assist the ARFF personnel.



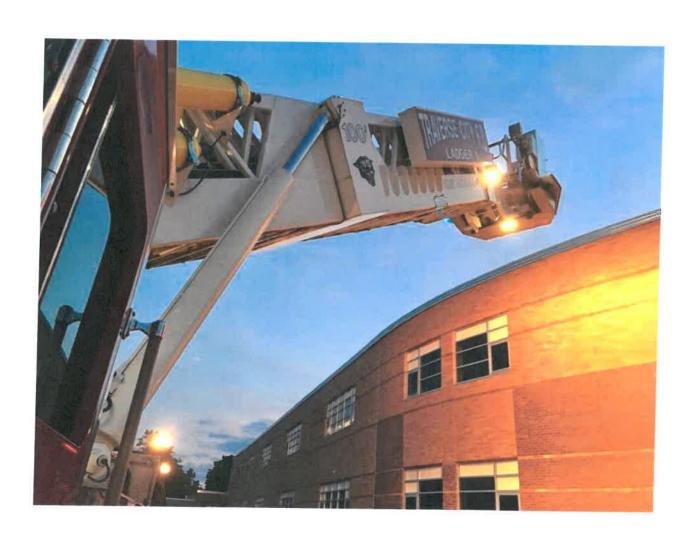
Training

City Fire personnel participate in some type of training during each of their 24-hour shifts. Whether it is a hands-on practical skill evolution, a demonstration of new equipment or rescue techniques, lectures or on-line training, it is a neverending process. The need to stay abreast of new information and best practices in the different disciplines that today's Firefighter Paramedics are trained in is carried out through a structured training program and through support through the General Fund. The areas of training are described below:

• Fire Suppression – Personnel are trained in all aspects of fire suppression including: industrial, commercial, residential, aircraft, chemical, vehicle, boat and wild lands.









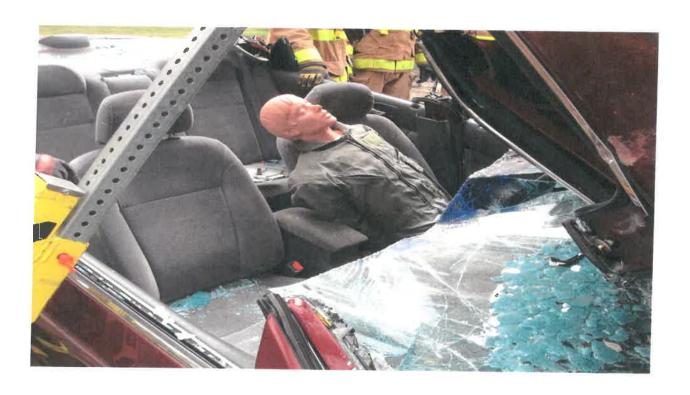
Medical-Rescue/Advanced Life Support – 20 of our 24 personnel are serving as Paramedics, providing to our Community the highest level of pre-hospital care available in the nation. With Rescue 01, we can treat and transport patients to Munson Medical Center when North Flight is unavailable.













Aircraft Rescue Fire Fighting - On-site staffing at Cherry Capital Airport. Rescue and fire suppression operations involving the various types and sizes of aircraft that move through Cherry Capital Airport.



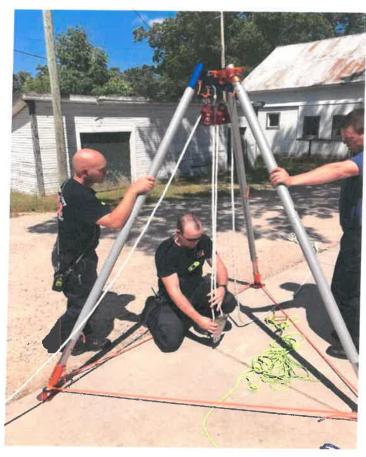


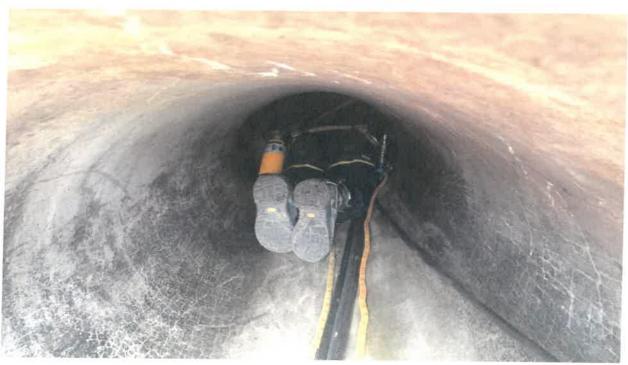




Technical Rescue — Personnel are cross-trained in varying aspects of technical rescue. This includes: Confined Space Rescue, High Angle Rope Rescue, Water and Ice Rescue, Trench Rescue, and Vehicle Extrication. Some TCFD members are also team members of the Bay Area Rescue Team (BATR). This specialized rescue resource is comprised of area fire personnel who have received advanced training in the Technical Rescue area and with an equipment cache, can be deployed to respond within Grand Traverse County or to neighboring counties if requested.





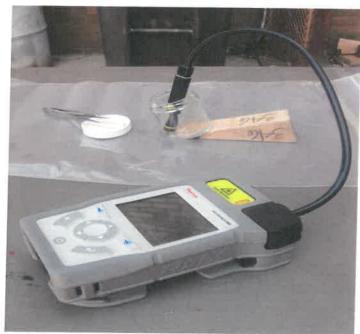




Hazardous Materials and Weapons of Mass Destruction (WMD) Teams – Every firefighter is HazMat and WMD trained. Due to financial support received through a subscription fee process, the HazMat team responds to HazMat incidents in the GT Area. We will support State Region 07 if requested.









Fire Prevention and Education

The goal of the Fire Prevention Division is community risk reduction through: fire code enforcement, inspections and plan reviews, and fire and injury safety education.

Fire prevention inspections and plan reviews allow the Fire Prevention Division to educate business owners on safe practices, and fire prevention. Over the course of 2016 the Fire Prevention Division has completed 592 various inspections and plan review.

As of January 01, 2017 the Fire Prevention Division resumed responsibility for the performance of Building plan reviews, and Fire protection plan reviews. Since 2009, these processes were contracted to Grand Traverse Metro Fire Department. To help offset the additional work load of the plan review process, the Fire Inspectors position was refilled on December 12th. The Fire Inspector position had been vacant since October 10, 2010.

Along with fire inspections and plan reviews, the Fire Prevention Division also completes various public education activities, including: the Fire Department Open House, fire extinguisher trainings for local businesses, and fire and safety education in the schools. The Fire Prevention Division educated approximately 1000 people through these efforts in 2017.

The Fire Prevention Division has been facilitating a grant-based program for a residential smoke alarm project since 2011. This project consists of a home safety inspection focusing on the placement, age, and functionality of smoke detectors. If deemed necessary new smoke detectors are installed at no cost to the resident. In 2017, 64 smoke alarms were installed at the property owner's request. Since the beginning of the program, 891 smoke alarms have been installed in the City.



Fire Prevention and Education

2017 Statistics

2017 FIRE INSPECTIONS, PERMITS, PLAN REVIEWS - STATISTICS		
SERVICE PROVIDED	NUMBER	INCOME
	COMPLETED	GENERATED
Fire Code Compliance inspections	515	\$0.00
Sidewalk Cafes	23	\$0.00
Mobile Food Vendors	22	\$0.00
Tourist Homes	22	\$0.00
Special Event Permits	17	\$0.00
Fire Sprinkler Plan Reviews	35	\$ 10,040.00
Site Plan Reviews	85	\$ 4,245.00
Fire Alarm Plan Reviews	45	\$ 10,521.00
Building Plan Reviews	85	\$ 9,420.00
Suppression System Plan Reviews	21	\$ 4,700.00
TOTALS	870	\$ 38,926.00

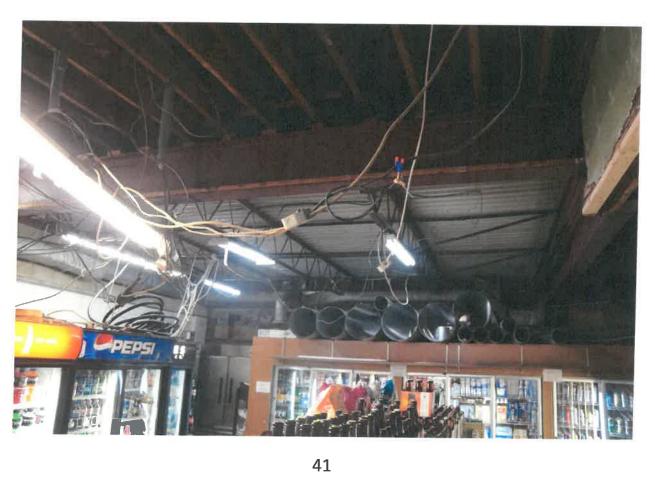
The data shown above represents the combined effort of the Fire Marshal and the Fire Inspector who work a 40-hour schedule Monday through Friday at Traverse City Fire Station 01. With the increased activity in new construction and remodel projects in existing buildings that result in an improvement or a change of building use, it is anticipated that the values regarding the amount of projects and the income generated will increase.

Research is underway in the area of new software and field-grade electronic support equipment to improve efficiency of these operations and also to streamline the time frame regarding customer service and document/data turn-around.













Conclusion

There are many people, entities and agencies that help the fire department throughout the year.

Our Firefighters who are committed to provide the best protection possible for the community from many of the different hazards and dangers that today's fire service is tasked with.

Our families and friends who understand the path we have chosen to serve our community and the time spent away at work, on emergency calls, and attending trainings and classes.

The citizens and local businesses that donate time, food and coffee at emergency scenes and throughout the year at the fire stations that helps to support us all year long.

The Honorable Mayor Carruthers and the City Commission for their continued support of the Traverse City Fire Department and the health and welfare of our residents and visitors.

City Manager Martin Colburn for his continued commitment to the emergency services and in the City of Traverse City.

Thanks to city staff and to the other city departments who help and support the Fire Department in many ways throughout the year.

It remains an honor and a privilege to serve as Fire Chief for the City of Traverse City. I look forward to the challenges the upcoming year will bring.

Respectfully submitted,

Jim Tuller,

Fire Chief